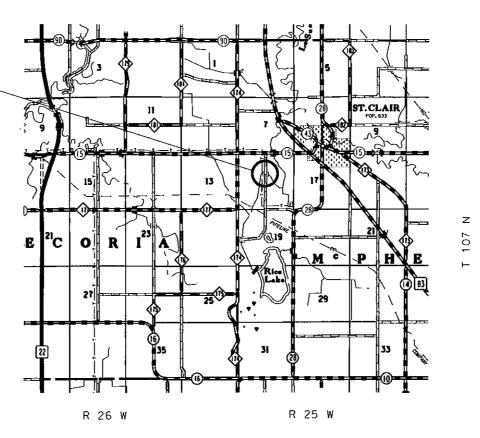
MINNESOTA DEPARTMENT OF TRANSPORTATION BLUE EARTH COUNTY DEPARTMENT OF PUBLIC WORKS CONSTRUCTION PLANS FOR BRIDGE, GRADING & SURFACE

BRIDGE No 07J16 SAP 07-599-49

ON MCPHERSON TWP RD T-136 (602 AV), $^{1}\nu_{2}$ MILE SOUTH OF CSAH 15 ABOUT 1 MILE SOUTHWEST OF ST CLAIR OVER DRAINAGE DITCH #88 1925' S. OF THE NORTH $^{1}\nu_{4}$ COR. OF SEC 18-107-25

GROSS LENGTH BRIDGE-LENGTH NET LENGTH 100.00 FEET 0.019 MILES
FEET MILES
100.00 FEET 0.019 MILES

PROPOSED BRIDGE No. 07J16
EXISTING BRIDGE No. L5662



PROJECT LOCATION



DESIGN DESIGNATION

ADT (CURRENT YEAR) 2008 = < 30
ADT (FUTURE YEAR) 2028 = < 50
T (HEAVY COMMERCIAL)
BASED ON STOPPING SIGHT DISTANCE
HEIGHT OF EYE 3.5' - HEIGHT OF OBJECT 2.0'
TO DESIGN SPEED NOT ACHIEVED AT:

DATE	SHEET NO.	APPROVED 8Y	
DATE	3HEE1 NO.	AFFROVED BI	
		1	
- 1			
-			

FOR PLANS AND UTILITIES SYMBOLS SEE TECHNICAL MANUAL

N

GOVERNING SPECIFICATIONS

THE 2005 EDITION OF THE MINNESOTA DEPARTMENT OF TRANSPORTATION "STANDARD SPECIFICATIONS FOR CONSTRUCTION" SHALL GOVERN.

INDEX OF SHEETS

THIS PLAN CONTAINS 8 SHEETS

SCALE

PLAN 100′ | 100′ | 10′ | 10′ | 10′ | 10′ | 10′ | 10′ | 10′ | 10′ | 10′ | 10′ | 10′ | 10′ | 10′ | 10′ | 10′ | 10′ | 10′ | 10′ | 10′ | 10′ | 10′ | 10′ | 10′ | 10′ | 10′ | 10′ | 10′ | 10′ | 10′ | 10′ | 10′ | 10′ | 10′ | 10′ | 10′ | 10′ | 10′ | 10′ | 10′ | 10′ | 10′ | 10′ | 10′ | 10′ | 10′ | 10′ | 10′ | 10′ | 10′ | 10′ | 10′ | 10′ | 10′ | 10′ | 10′ | 10′ | 10′ | 10′ | 10′ | 10′ | 10′ | 10′ | 10′ | 10′ | 10′ | 10′ | 10′ | 10′ | 10′ | 10′ | 10′ | 10′ | 10′ | 10′ | 10′ | 10′ | 10′ | 10′ | 10′ | 10′ | 10′ | 10′ | 10′ | 10′ | 10′ | 10′ | 10′ | 10′ | 10′ | 10′ | 10′ | 10′ | 10′ | 10′ | 10′ | 10′ | 10′ | 10′ | 10′ | 10′ | 10′ | 10′ | 10′ | 10′ | 10′ | 10′ | 10′ | 10′ | 10′ | 10′ | 10′ | 10′ | 10′ | 10′ | 10′ | 10′ | 10′ | 10′ | 10′ | 10′ | 10′ | 10′ | 10′ | 10′ | 10′ | 10′ | 10′ | 10′ | 10′ | 10′ | 10′ | 10′ | 10′ | 10′ | 10′ | 10′ | 10′ | 10′ | 10′ | 10′ | 10′ | 10′ | 10′ | 10′ | 10′ | 10′ | 10′ | 10′ | 10′ | 10′ | 10′ | 10′ | 10′ | 10′ | 10′ | 10′ | 10′ | 10′ | 10′ | 10′ | 10′ | 10′ | 10′ | 10′ | 10′ | 10′ | 10′ | 10′ | 10′ | 10′ | 10′ | 10′ | 10′ | 10′ | 10′ | 10′ | 10′ | 10′ | 10′ | 10′ | 10′ | 10′ | 10′ | 10′ | 10′ | 10′ | 10′ | 10′ | 10′ | 10′ | 10′ | 10′ | 10′ | 10′ | 10′ | 10′ | 10′ | 10′ | 10′ | 10′ | 10′ | 10′ | 10′ | 10′ | 10′ | 10′ | 10′ | 10′ | 10′ | 10′ | 10′ | 10′ | 10′ | 10′ | 10′ | 10′ | 10′ | 10′ | 10′ | 10′ | 10′ | 10′ | 10′ | 10′ | 10′ | 10′ | 10′ | 10′ | 10′ | 10′ | 10′ | 10′ | 10′ | 10′ | 10′ | 10′ | 10′ | 10′ | 10′ | 10′ | 10′ | 10′ | 10′ | 10′ | 10′ | 10′ | 10′ | 10′ | 10′ | 10′ | 10′ | 10′ | 10′ | 10′ | 10′ | 10′ | 10′ | 10′ | 10′ | 10′ | 10′ | 10′ | 10′ | 10′ | 10′ | 10′ | 10′ | 10′ | 10′ | 10′ | 10′ | 10′ | 10′ | 10′ | 10′ | 10′ | 10′ | 10′ | 10′ | 10′ | 10′ | 10′ | 10′ | 10′ | 10′ | 10′ | 10′ | 10′ | 10′ | 10′ | 10′ | 10′ | 10′ | 10′ | 10′ | 10′ | 10′ | 10′ | 10′ | 10′ | 10′ | 10′ | 10′ | 10′ | 10′ | 10′ | 10′ | 10′ | 10′ | 10′ | 10′ | 10′ | 10′ | 10′ | 10′ | 10′ | 10′ | 10′ | 10′ | 10′ | 10′ | 10′ | 10′ | 10′ | 10′ | 10′ | 10′ | 10′ | 10′ | 10′ | 10′ | 10′ | 10′ | 10′ | 10′ | 10′ | 10′ | 10′ |

THE SUBSURFACE UTILITY INFORMATION IN THIS PLAN IS UTILITY LEVEL D. THIS QUALITY LEVEL WAS DETERMINED ACCORDING TO THE GUIDELINES OF CI/ASCE 38-02, ENTITLED "STANDARD GUIDELINES FOR THE COLLECTION AND DEPICTION OF EXISTING SUBSURFACE UTILITY DATA."

UTILITIES

ONE CALL: 1-800-252-1166

ELECTRIC:
BENCO 1-507-387-7963

TELEPHONE:
HICKORY TECH 1-507-387-1730

ALL APPLICABLE FEDERAL. STATE AND LOCAL LAWS AND ORDINANCES WILL BE COMPLIED WITH . IN THE CONSTRUCTION OF THIS PROJECT.

I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION, OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.

COUNT ELGINEER ALAN FORSBERG

LICENSE No. 14720

STATE ALD ENG'R : REVIEWED FOR ANCE WITH STATE-ALD RULES/POLICY

STATE AID ENG'R : APPROVED FOR STATE-AID FUNDING

McPHERSON TWP SAP. 07-599-49 SHEET No. 1 OF 5 SHEETS

SIGMA N 18

SOIL FACTOR 130

THE FOLLOWING STANDARD PLATES, APPROVED BY THE FEDERAL HIGHWAY ADMINISTRATION, SHALL APPLY ON THIS PROJECT.

STANDARD PLATES

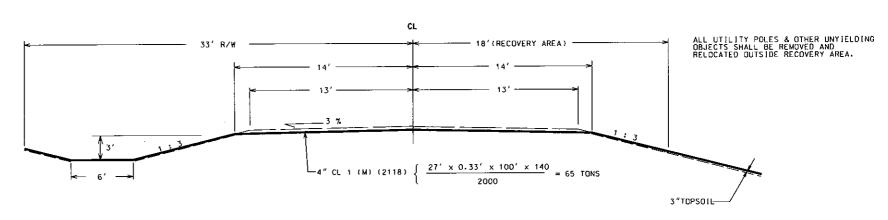
PLATE NO. DESCRIPTION

3014 J REINFORCED CONCRETE PIPE ARCH SECTIONAL CONCRETE APRON FOR REINFORCED CONCRETE PIPE-ARCH CONCRETE PIPE TIES (EYE BOLT TIE)

8000 I STANDARD BARRICADES

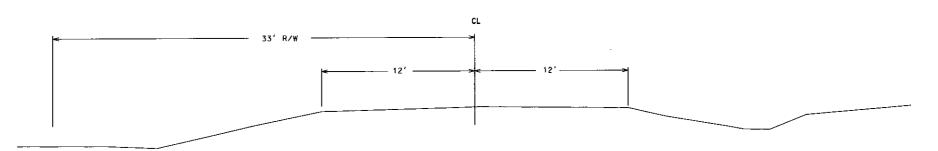
PAGE	ITEM No.	ITEM	UNIT	TOTAL EST. QUANTITY	TOTAL FINAL QUANTITY
4	2104.501	REMOVE STRUCTURAL PLATE ARCH PIPE	LIN. FT.	50	
. 2	2118.501	AGGREGATE SURFACING CL-1 (M)	TON	65	
3	2573.502	SILT FENCE TYPE HEAVY DUTY	LIN. FT.	100	
3	2573.540 2573.550	FILTER LOG, TYPE STRAW BIOROLL EROSION CONTROL SUPERVISOR	LIN. FT. L.S.	100	
3	2575.555	TURF ESTABLISHMENT	L.S.	1	

TYPICAL GRADING SECTIONS



3" OF TOPSOIL WILL BE REQUIRED ON ALL DISTURBED AREAS. QUANTITIES WILL BE INCIDENTAL TO BACKFILL

EXISTING SECTIONS



SYMBOLS CODE

SILT BARRIERS

TURF ESTABLISHMENT LUMP SUM ESTIMATED 0.15 ACRES

RIPRAP CL III 18" DEEP

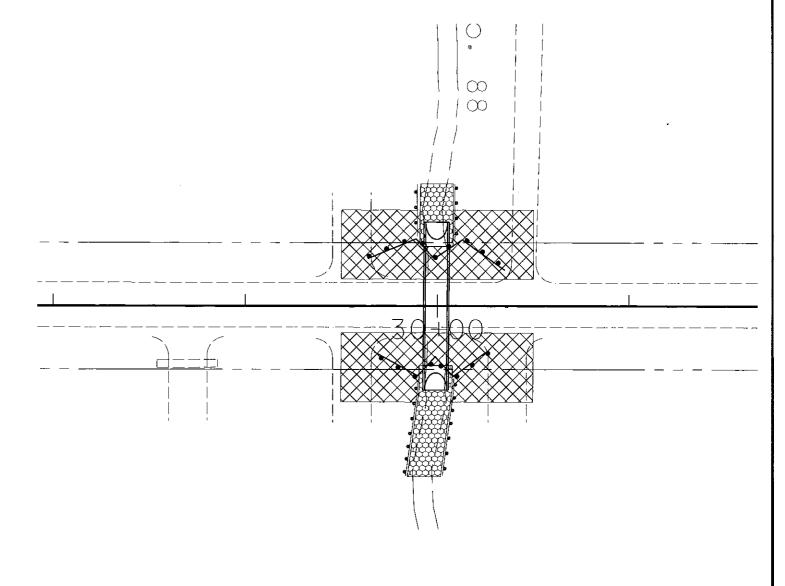
SUMMARY OF IMPERVIOUS & PERVIOUS (NPDES PERMIT)					
	Disturbed	Before Construction		After Construction	
	area	(Impervious)	Pervious	(Impervious)	Pervious
total sq ft.	11,210	2,400	8,810	2,800	8,410
Acres	0.26	0.06	0.20	0.06	0.20

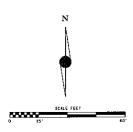
I. LOCATIONS ON THIS SHEET ARE TO BE USED AS A GUIDE VERIFY QUANTITIES AND LOCATIONS WITH CONDITIONS IN THE FIELD

2. BASIS OF PAYMENT SPECIFIED IN SPEC. 1903 SHALL BE MODIFIED TO PRECLUDE ANY PRICE ADJUSTMENT FOR INCREASED OR DECREASED QUANTITIES

3. CHOOSE TYPE OF SILT BARRIERS TO BEST FIT FIELD CONDITIONS ESTIMATED AT TYPE SILT FENCE HEAVY DUTY 100'
TYPE FILTER LOG TYPE STRAW BIOROLL 100'

4. RIPRAP CL 3 PLACED 18' DEEP, 6' OF GRANULAR FILTER SHALL BE INCIDENTAL TO PLACING RIPRAP. (GEOTEXTILE FABRIC MAY NOT BE SUBSTITUTED)

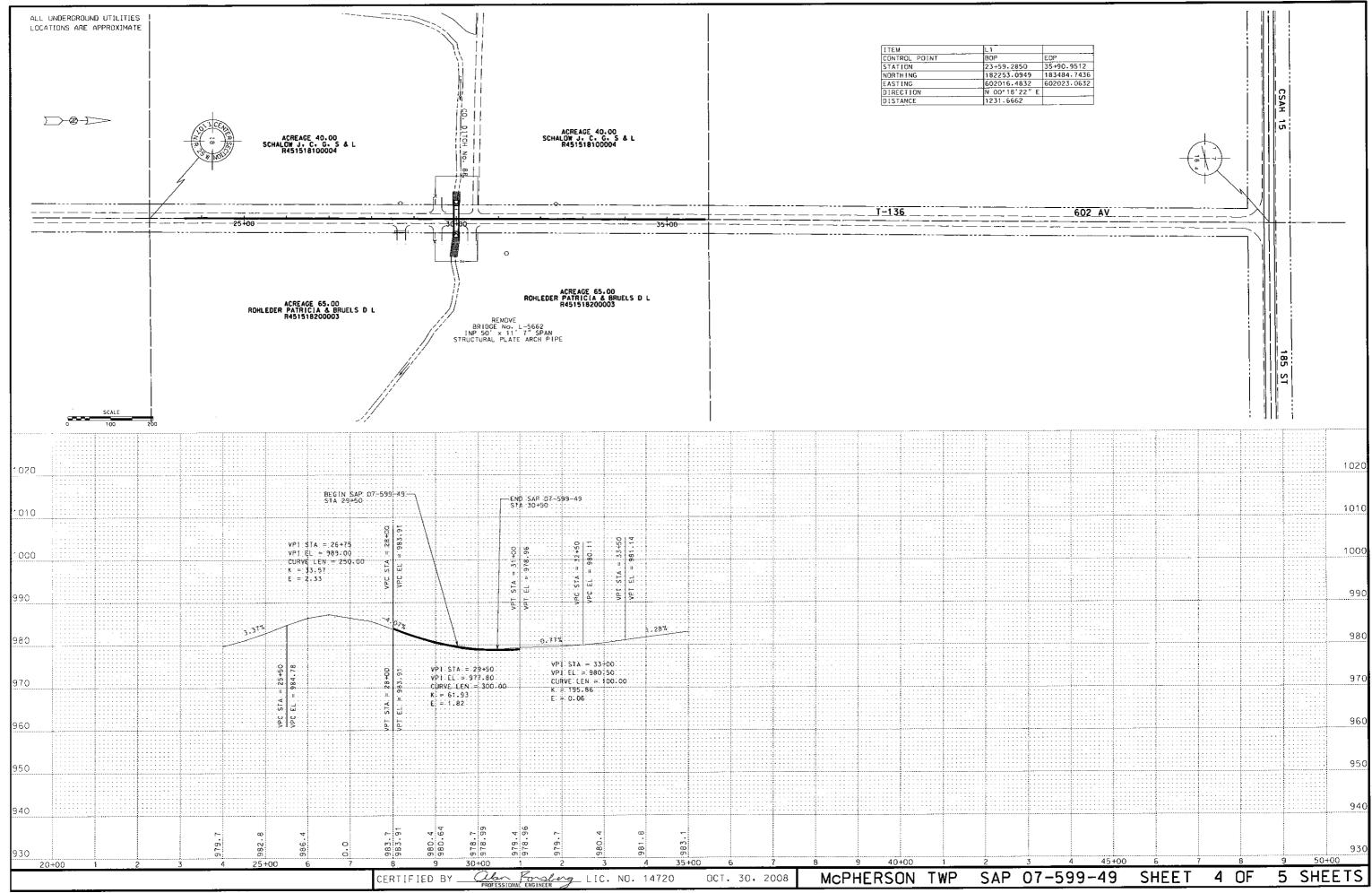


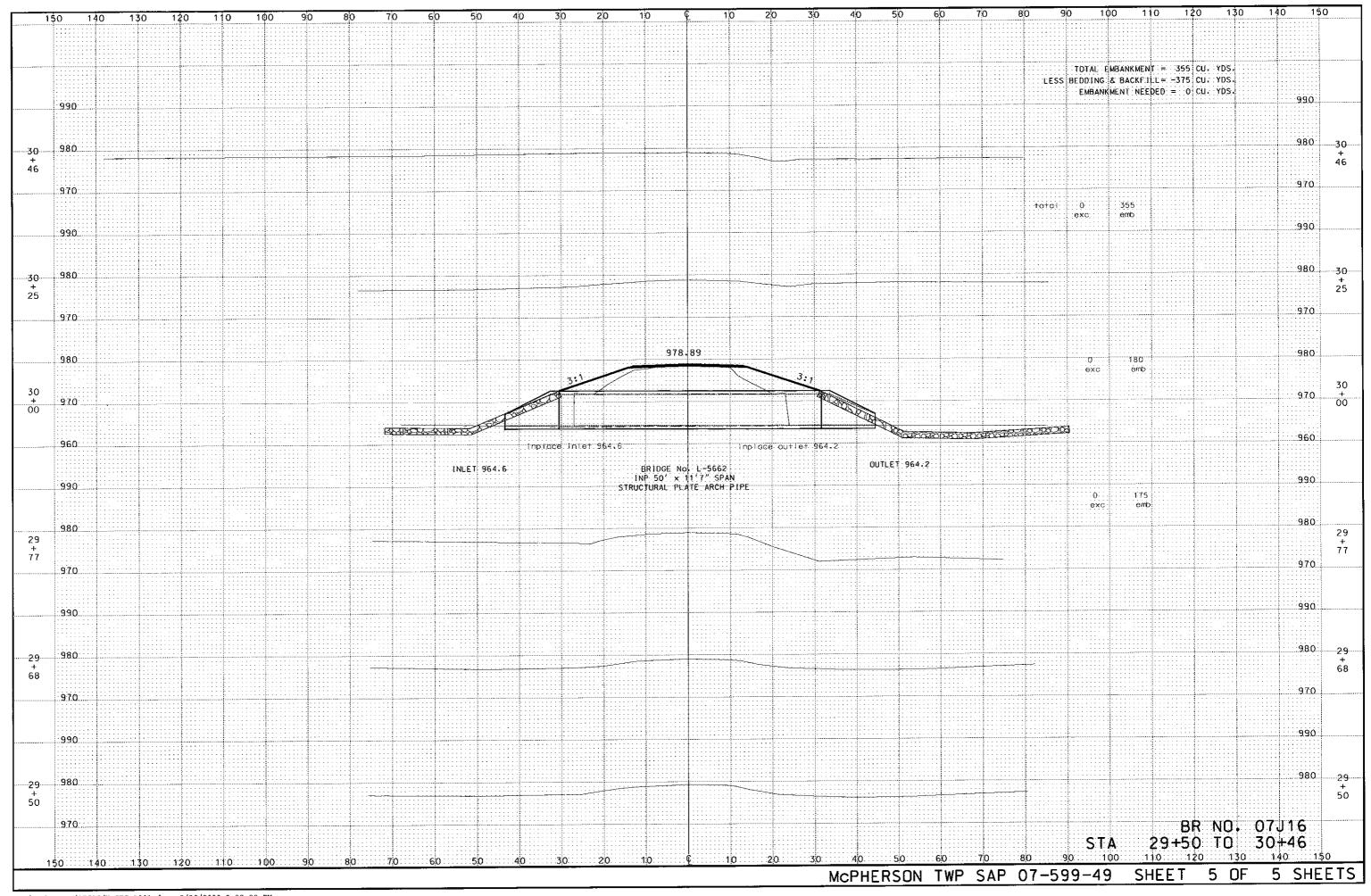


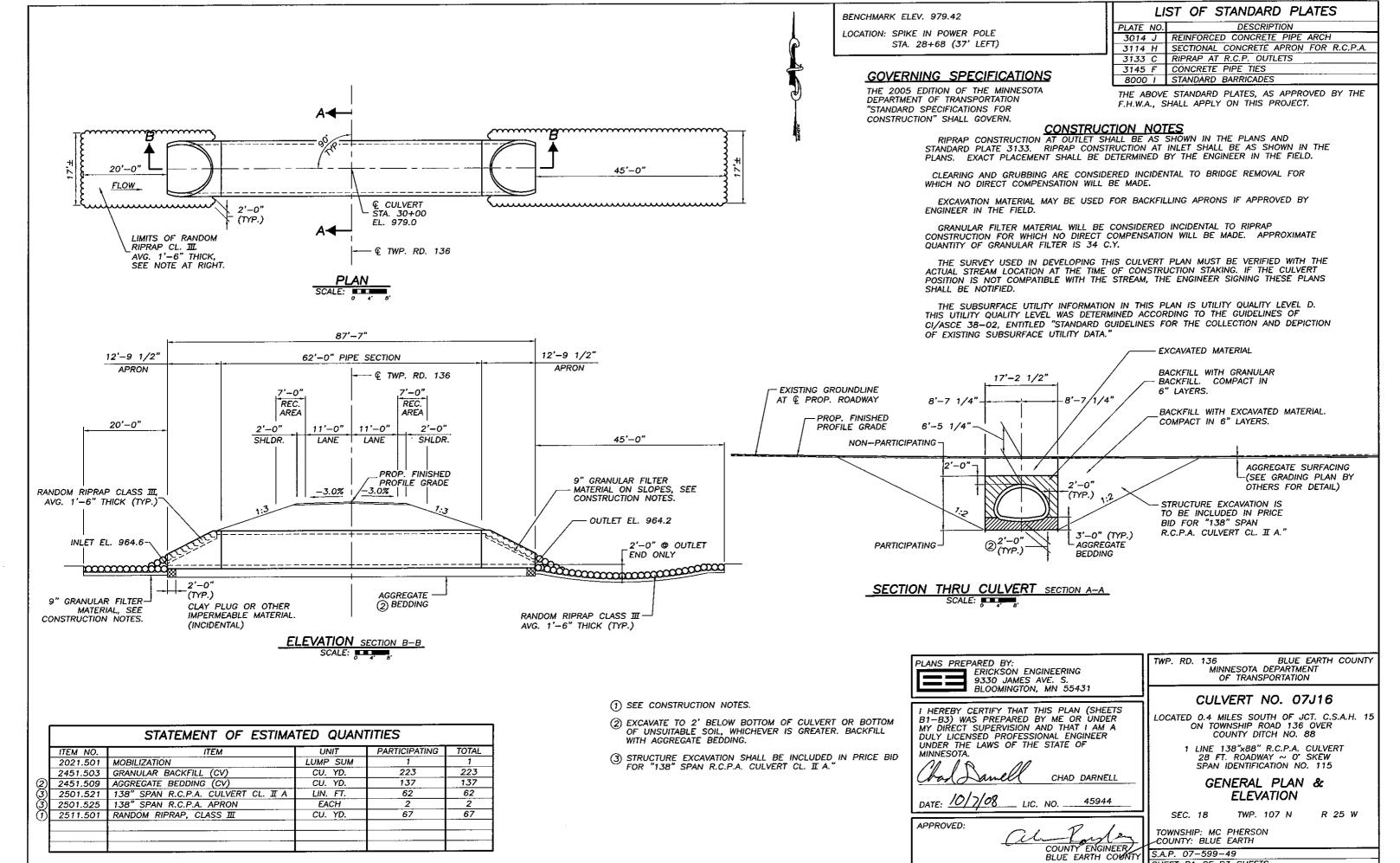
EROSION CONTROL & TURF EST. PLAN

CERTIFIED BY Clan Forsing LIC. NO. 14720 OCT. 2, 2008 MCPHERSON TWP. SAP 07-599-49

SHEET 3 OF 5 SHEETS







S.A.P. 07-599-49 SHEET B1 OF B3 SHEETS

DES.

DATE: 17 Nova8

CGD DRN.:

TJW CHK.:

SUK

CGD

07J16

